#### YUGOSLAVIA

Liubics HRISTIG-SOJIC and P. STUPAR, Department of Forensic Medicine, Faculty of Medicine (Institut za sudsku medicinu Medicinskog fakulteta), University of Belgrade.

"Case of Homicide with Parathion."

Zagreb, Arhiv za Higijenu Rada i Toksikologiju, Vol 12, No 3-4, 1961; pp 195-198.

Abstract [English summary modified] Parathion was added to drinking water stored in the field; intended victim was over 70 years old and it is doubtful that there would have been any suspicions about his sudden death had not another neighbor drunk of the same water by chance, succumbing also in a very similar manner. This eventually led to necropsy, analysis, confession. Plea for tighter control of such pesticides and for necropsy of all persons who die without being treated by a physician, also in the rural hinterland.

 $\pm 1/1$ 

JOKANOVIC, Dobrivoje, dr., doc.; HRISTIC-SOJIC, Ljubica, dr.

Accidental poisoning with silver nitrate during therapy. Med. glasn. 15 no.9/10:423-424 0 '61.

1. Institut za sudsku medicinu Medicinskog fakulteta Univerziteta u Beogradu (Upravnik: prof. dr J. Bogicevic).

(SILVER NITRATE toxicol)

PEJAKOVIC, Samuilo, dr.; HRISTIC-SOJIC, Ljubica, dos. dr.; Toberovic, Jovan dr.

Ebstein's anomaly of the tricuspid valve as a cause of sudden death. Med. [las. 17 no.6:262-264 Je-J1 '63.

1. Institut za sudsku medicinu Medicinskog fakulteta u Beogradu (Upravnik: prof. dr. J. Bogicevic).

ATANACKOVIC, Ana; LAMBIC, Ivan; VASILIC, Momeilo; HRISTIC-SOJIC, Ljubica

Acute myocardial infarction with a negative and insufficiently manifest electrocardiographic picture. Srpski arh. celok. lek. 89 no.1: 87-91 Ja 161.

1. Interna klinika B Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Radivoje Berovic. Institut za sudsku medicinu Medicinskog fakulteta Univerziteta u Beogradu. Upravnik: prof. dr Julijana Bogicevic.

(MYOCARDIAL INFARCT diag) (ELECTROCARDIOGRAPHY)

PEJAKOVIC, Samuilo, Dr; HRISTIC-SOJIC, Ljubica, Dr; and TODOROVIC, Jovan, Dr; Department of Forensic Medicine of Medical Faculty (Institut za sudsku medicinu Medicinskog fakulteta) Head (Upravnik) Prof Dr J. EGICEVIC; Belgrade.

"Sudden Death Caused by Ebstein Anomaly of Tricuspid Valve."

Belgrade, Medicinski Glasnik, Vol 17, No 6-7, Jun-Jul 63; pp 262-263.

Abstract [French summary modified]: Report of sudden death of 26-year-old woman with Ebstein syndrome. She had had cardiovascular complaints for a long time but was never properly examined or diagnosed and could do light work. Eventually the myocardium was unable to bear the strain. Forensic discussion. Two Yugoslav and 6 Western references.

1/1

STREAMOVIC, Petar; DJORDJEVIC, Slobeism; HRISTIC-SCUIC, Liubica

Complications following the extraction of foreign bodies from the lower respiratory system. Srpski arh. celck. 1ek. 92 no.48 413-419 Ap 264

1. Utorinolaringoloska klinika Medicinskog fakulteta Univerzieteta u Beogradu (Upravnika prof. dr. Srecko Podvinea); institut za sudsku medicinu Medicinskog fakulteta Univerzitete u Beogradu (Upravnika prof. dr. Julijana Bogicevia).

HRISTIC-SOJIC, Ljubica, doc. dr.; MICIC, Sonja

Medico-social aspects of fatal complications in original abortion. Med. glas. 19 no.4193-97 Ep-My '65.

Importance of correct description of mechanical trauma in medical records. Thid.:79-102

1. Institut za sudsku medicinu Medicinskog fakulteta u Beogradu (Upravnik: prof. dr. J. Bogicevid).

L 32803-66 ACC NR: AP6023773 SOURCE CODE: YU/0015/65/000/04-/0093/0097

AUTHOR: Hristic-Sojic, Ljubica (Doctor; Docent); Micic, Sonja (Doctor)

ORG: Department of Forensic Medicine /headed by Professor, Doctor J. Bogicevic/, Medical College, Belgrade (Institut za sudsku medicinu Medicinskog fakulteta)

TITLE: Medical and social aspects of mortality caused by criminal abortion

SOURCE: Medicinski glasnik, no. 4-5, 1965, 93-97

TOPIC TAGS: injury, biologic reproduction, surgery

ABSTRACT: Review of data on 27 necropsies of women who died as sequelae to criminal abortion from among 2,641 necropsies carried out during the three-year period, 1960-1962. Analysis revealed that this is only a small proportion of fatal cases attributable to criminal abortion in Belgrade and environs; the primary cause is inadequate education as to a) contraceptive practices, b) possibility of steps to obtain permission for legalized abortion, and c) dangers of criminal abortion. Five of the cases are described in some detail. [JPRS]

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 007 / OTH REF: 011

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#### "APPROVED FOR RELEASE: 09/21/2001

#### CIA-RDP86-00513R000618220015-6

SOURCE CODE: YU/0015/65/000/04-/0099/0102 I. 32799-66 ACC NR: AP6023775 AUTHOR: Hristic-Sojic, Ljubica (Docent; Doctor); Micic, Sonya (Doctor В ORG: Department of Forensic Medicine /headed by Professor, Doctor J. Bogicevic/, Medical College, Belgrade (Institut za sudsku medicimu Medicinskog fakultet) TITLE: Importance of proper records of mechanical lesions in medical case histories SOURCE: Medicinski glasnik, no. 4-5, 1965, 99-102 TOPIC TAGS: injury, medicine ABSTRACT: Review of needs for complete description of wounds during the first medical examination of victims of any accident rather than resorting to the froquent practice of merely writing down the conclusions of the examining physician. Description of 4 cases where failure to record in sufficiently detailed manner the condition of the lesions at the time of the discovery of the body led eventually to insoluble difficulties. [JPRS] SUHM DATE: none SUB CODE: 06 / 1600

**APPROVED FOR RELEASE: 09/21/2001** 

CIA-RDP86-00513R000618220015-6"

BORZA, N., inginer-sef; HRISTOFOROV, A., inginer specialist

Application of the new technology in designing electric power constructions. Energetica Rum 12 no. 1: 12-21 Ja '64.

#### RUMANIA

TRANDAFILOV, T., Professor; DRUMEV, D., Docent, MD; COJUHAROV, P., MD; HRISTOV, K., Pharmacist.

Bucharest, Farmacia, No 3, Mar 63, pp 129-139.

"New Trends and Achievements in Pharmaceutical Products with Antibiotics."

(4)

HRISTOV, S.

"Geologic and hydrologic problems in the construction of the road from Prizren to Strbce."

p. 3 (Put I Saobracaj) No. 5/6, May/June 1957 Belgrade, Yugoslavia

SO: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4, April 1958

HRISTOV, Tv., conf.; TOLOVA, E., asist.

Contributions to the utilization of fibrous materials from hardwood (Ailanthus glandulose) in manufacturing some printing paper sorts. Cel hirtis 10 no.11:377-380 Nº61

1. Institutul tehnologic din Sofia

L 43635-66 IJP(c) ACC NR: AT6032337	SOURCE CODE:	HU/2504/65/052/03	-/0295/0303
AUTHOR: Hristov, V. K. (Sofia)			26
ORG: none			Bt/
TITIE: Compensation of correlated o correlation matrix &	observations under the	conditions of a s	ingular
SOURCE: Academia scientiarum hungar	icae. Acta technika.	v. 52. no. 3-4. 19	65- 295-303
TOPIC TAGS: mathematic matrix, math	nematics	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0), 2), 50)
ABSTRACT: justment according to conditional ob the adjusted values will be correlat tional common adjustment with the re under the application of the general event the correlation matrix is a si minant). In spite of this, the procesame corrections and weight. An exam considerations involved. Orig. art.	ed and can be subjected and ining observations, principle of least some (i.e., with address can be employed, ple was presented to	ed to an addi- in all cases equares. In this h a zero deter- leading to the illustrate the	5: 34,672
SUB CODE: 12 / SUBM DATE: 23Febb			
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SADIKARIO, A.; MLADENOVSKI, B.; DZARLIEVA, R.; HRISTOVA, C.

Some special aspects of diabetes mellitus in childhood. God. zborn. med. fak. Skopje 11:165-179 164.

1. Klinika za detski bolesti pri medicinskiot fakultet, Skopje (upravitel: prof. d-r. H. Duma).

ACC NR: AP6032916

SOURCE CODE: BU/0011/66/019/008/0725/0728

AUTHOR: Borissov, G.; Hristova, N.

ORG: Institute of Organic Chemistry, Bulgarian Academy of Science

TITLE: Addition of bis( $\beta$ -chloroethyl) phosphite to Schiff bases

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 19, no. 8, 1966, 725-728

TOPIC TAGS: herbicide, aminoalkylphosphonic acid ester, bischloroethyl phosphite,

Schiff base, weed killer, phosphonic acid, ester, amino acid

ABSTRACT:

In a search for new herbicides, a series of esters of  $\alpha$ -aminoalkylphosphonic acids were obtained by the addition of bis( $\beta$ -chloroethyl) phosphite to the corresponding Schiff bases. The reaction proceeds at 25—70°C in the presence of saturated methanolic solution of sodium methoxide. Composition, yields, and melting points of the esters are given in the table.

**Card** 1/2

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	6	CH - NH	103-106	70.00	61.54	61.54	1.06	4.91	6.50	6.56	1.63	2.87	1211	18.56		:	
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HRISTOW, W.

Flexure invariants in geodesy and their correlations. In German. p. 199. Vol 13, Nol/2, 1955. ACTA MICROBIOLOGICA and ACTA TECHNICA. Budapest, Hungary.

So: Eastern European Accession. Vol 5, No 4, April 1956

#### HRISTOW, W.

Classic and modern exactness-estimation of some compensation cases; also, discussion by  $J_{\bullet}$  Bohm and others. p. 17

ACTA TECHNICA. (MAGYAR TUDOMANYOS AKADEMIA) Budapest, Hungary. Vol. 23, no. 1/3, 1959

Monthly list of East European Accessions (EEAI). IC. Vol. 9, no. 1, Jan., 1960.

Uncl.

HRISTU, C.

HRISTU, C. Excavators lifted to the top of a mountain. p. 3. Powerful weapon in the flight for peace and progress. p. 4. Positive results of the Moseow treaties. p. 4. Vol. 7, no. 296, Sept. 1955. CONSTRUCTORUL. Bucuresti, Rumania

SOURCE: East European Accessions list (SEAL) LC Vol. 5, No. 6 June 1956

HRISTU, C., ing.

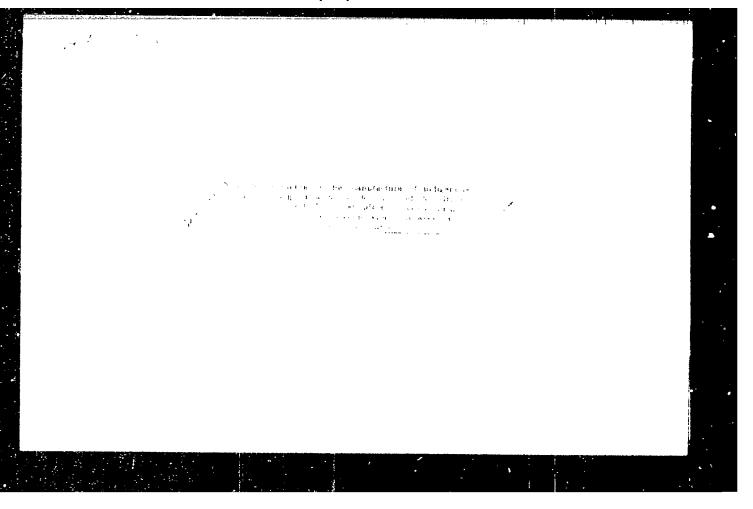
Plans of the Technical Organizational Measures exemplarily achieved. Constr Buc 16 no. 748:2 9 May 164.

1. Head of the Ecomomical Sector of the D.G.I.S. in the Ministry of Education and Culture.

Estante. construction expected to the standard server. Constr has 17 to 762:3 5 da 161.

1. Head of the Construct

Construction Facilities of the 10.1... Management the Grassmatten Facilities.

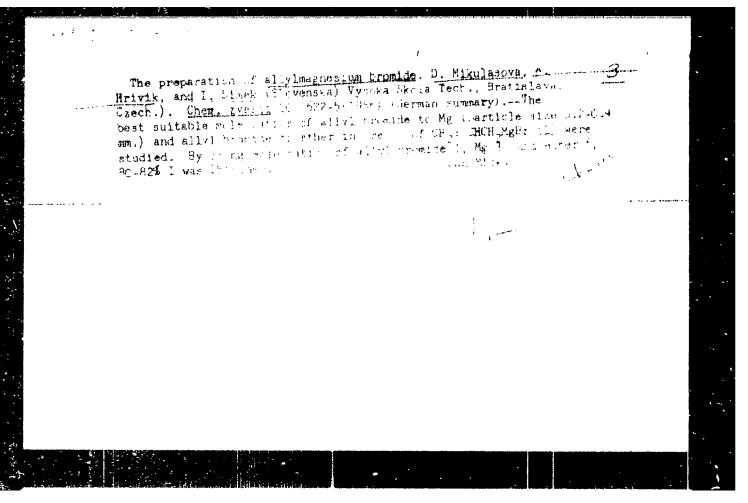


## HRIVANK, I.

"The case of a rapid transformation in the resistance welding of carbon steels."

p. 297 Vol. 6, no. 10, Oct. 1957 (Zvaranie) Prague, Czechoslovakia

SO: Monthly In dex of EastEuropean Accessions (EEAI) LC. Vol. 7, no. 4, April 1958



CZECHOSLOVAKIA/Chemistry of High Molecular Properties.

Abs Jour

: Ref Zhur - Khimiya, No 19, 1958, 66372

Author

Mikalasova, D., Hrivik, A.

Inst Title

Polymerization of Tetrasubstituted Allylmethylsilanes. I. Kinetics of Polymerization of Allyltrimethylsilane and Diallyldimethylsilane. II. Mechanism of Radical

Polymerization of Allyltrimethylsilane.

Orig Pub

Chem. zvesti, 1957, 11, No 11, 641-650; No 12, 708-714.

Abstract

I. The polymerization of allyltrimethylsilane (I) and diallyldimethylsilane (II) was investigated, initiated by peroxide of ditertiary butyl (III) (1-5%), at 120-1500 5%). The total energies (depth of polymerization of the activation of polymerization of I and II equal 34-35 and 24.5-25.2 large calories/mole respectively. The rate of polymerization is proportional to the concen-

tration of the initiator.

Card 1/2

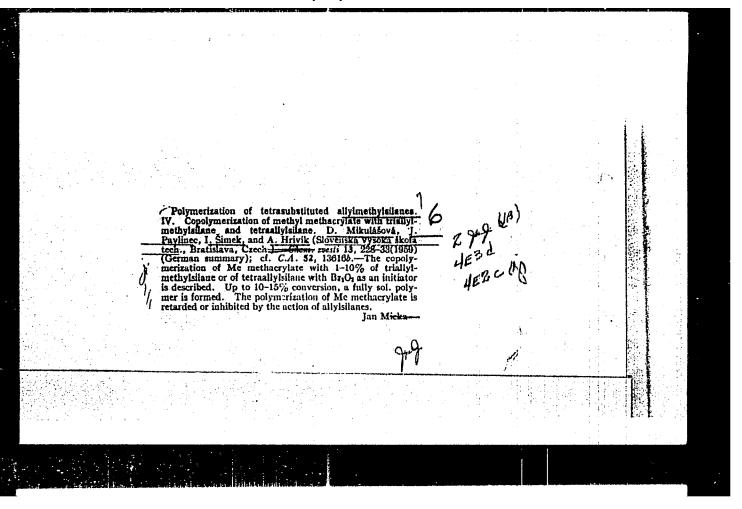
CZECHOSLOVAKTA/Chemistry of High Molecular Properties. I. APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618220015-6"

: Ref Zhur - Khimiya, No 19, 1958, 66372 Abs Jour

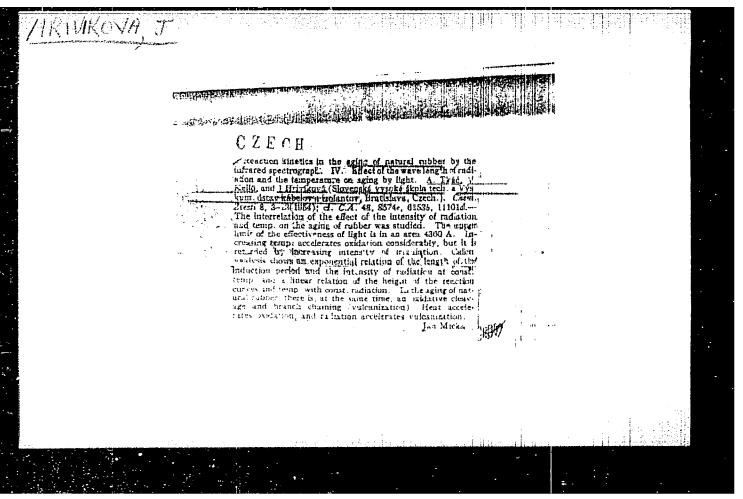
> The average degree of polymerization of I polymers equals 3.8-4.7. That of II equals 4.4-9.3. The amount of average molecular weight does not depend on the concentration of the initiator, but increases with an increase of temperature.

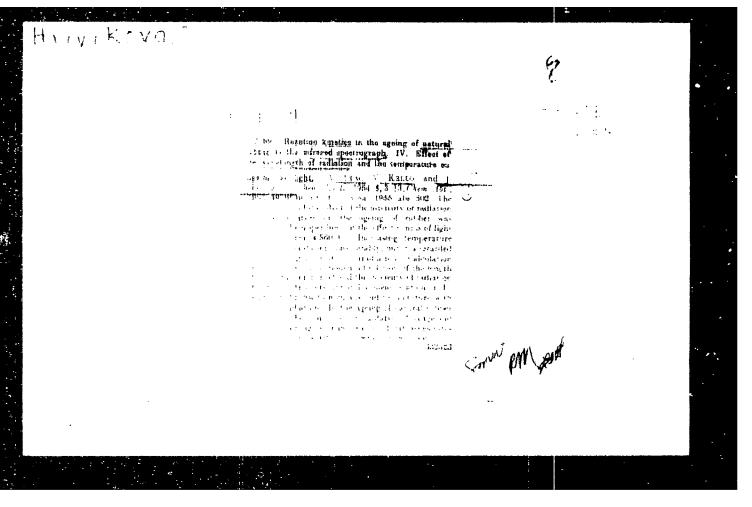
II. A method is described for the determination of tert-butyl alcohol in the polymerization system. During the polymerization of I initiated by 1% of III, the formation of tert-buthyl alcohol was established, it is clear, as being a result of a side reaction.

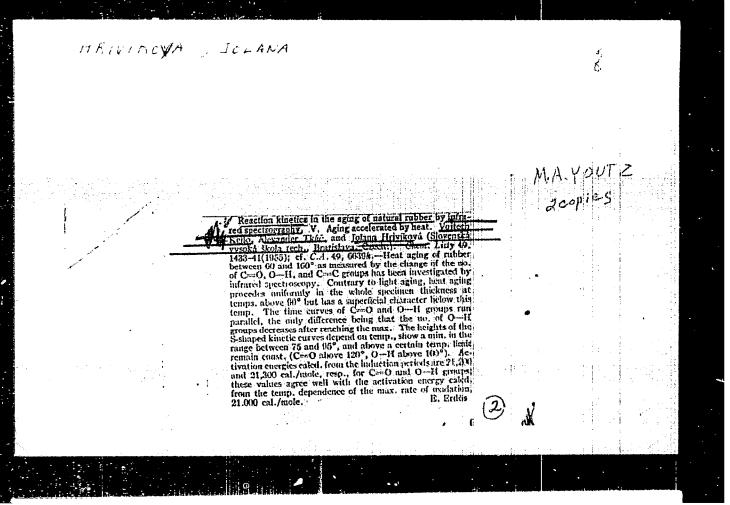
Card 2/2



T/EWP(j) L 45358-66 IJP(c) JW/RM ACC NR: AP6033607 SOURCE CODE: CZ/CO43/66/000/001/0061/0068 AUTHOR: Hrivik, Alexander -- Grivik, A. (Engineer; Candidate of sciences; Bratislava) ORG: Department of Organic Technology, <u>Slovak Technical University</u>, <u>Bratislava</u> (Katedra organickej technologie Slovenskej vysokej skoly technickej) TITIE: Study of the adsorption of acrylonitrile vapors by polymers containing preadsorbed benzoylperoxide SOURCE: Chemicke zvesti, no. 1, 1966, 61-68 TOPIC TAGS: gas adsorption, acrylonitrile, polymer physical chemistry, benzoyl peroxide, polymerization ABSTRACT: The adsorption of acrylonitrile vapors on polyvinylchloride and polypropylene containing preadsorbed benzoylperoxide was studied by means of sorption balances with a quartz spiral. The study was conducted at 60°C. The adsorption and the polymerization of the vapors occur simultaneously. The adsorbed amount of vapors depends on the size of the polymer grains, and upon the interaction of the sorbate and the sorbent. Polyvinyl chloride and polypropylene polymers behave in a different manner as far as the quantity of vapors that can be adsorbed by a definite amount of the polymer is concerned. The polymerization of the adsorbed acrylonitrile vapors is a function of the pressure of these vapors as well as of the properties of the polymer on which they are adsorbed. Orig. art. has: 12 figures and 5 formulas. [JPRS: 34,805] SUB CODE: 07 / SUBM DATE: 29Sep65 / ORIG REF: 003 / SOV REF: 002 OTH REF: 004 auren Card 1/1145







#### CIA-RDP86-00513R000618220015-6 "APPROVED FOR RELEASE: 09/21/2001

4RIVI KOVA

Category : CZECHOSLOVAKIA/Optics - Spectroscopy

K-6

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5121

Author

: Kello, V., Tkac, A., Hrivikova, J. : Study of Aging of Natural Rubber using Infrared Spectroscopy. V. Title

Thermal Acceleration of Aging

Orig Pub : Sb. chekhosl. khim, rabot, 1956, 21, No 2, 281-290

Abstract : No abstract

: 1/1 Card

CASCHOSLOVANIA

# TRAC, A.; HRIVIKOVA, J.

Department of Physical Chemistry, Slovak Institute of Chemical Technology, Bratislava - (for both).

Prague, Collection of Ozechoslovak Chemical Communications, No 11, November 1965, pp 3861-3874.

"On the theory of macroradical termination. Fart la Changes in the level of radicals detected spectroscopically".

HKIVINOVA, S.

O MATERIAL DE LA SALVANA LA

TRAC, A.; KELLO, V.; REIVIKOVA, J.

Dept. of Shysical Chemistry, Slovek Testmical Univ., Bratislava (for all)

Proges, Collection of Caseboolevak Chamical Communications, No 2, Feb. 1966, pp 351-565

"On the theory of marraradical termination. Part 4: Hechanism of termination of marraradicals."

HRIVNAK, Juraj, inz.

Relay circuit control with regard to transient states. Automatizace 5 no.12:328-331 D '62.

1. Elektromontazne zavody, n.p., Bratislava.

HRIVNAK, L.

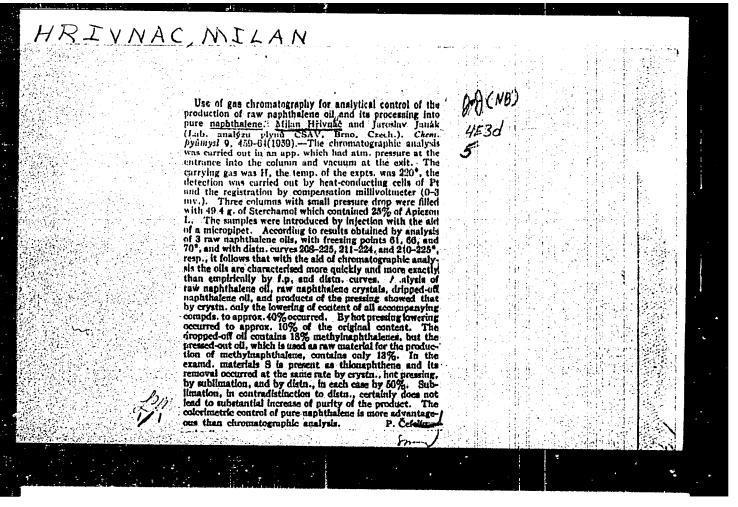
Interaction of conduction electrons in solids. Chekhosl fiz zhurnal 13 no.7:482-492 '63.

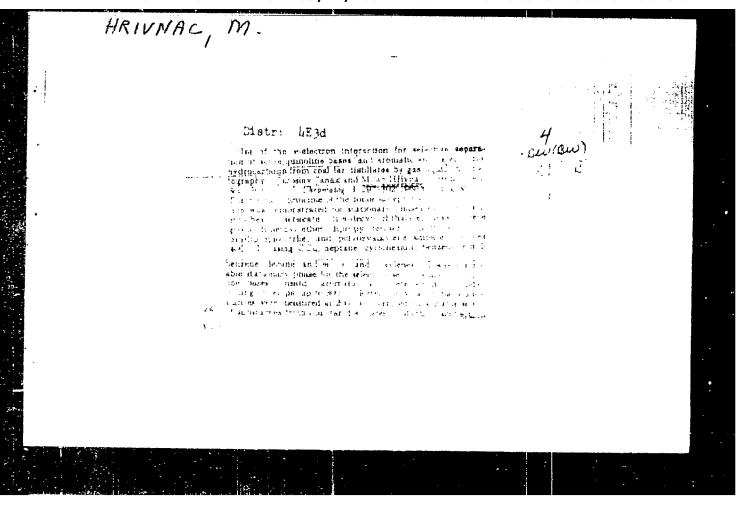
1. Katedra fyziky Vysokej skoly dopravnej, Zilina.

HRIVNAK, L.

The dependence of current density on the electric field strength in homopolar semiconductors. Chekhosl fiz zhurnal 14 no.6: 459-468 '64.

1. Chair of Physics, Higher School of Transportation, Zilina, Marxa-Engelsa 25.





# JANAK, J.; HRIVNAC, M.;

Cas chromatography of nitrogen containing heterocyclic compounds. I. Separation and analysis of quinoline and higher pyridine bases as well as indoles by means of gas-liquid chromatography. Cell Cz Chem 25 no.6:1557-1565 Je '60. (EEAI 10:9)

1. Laboratorium fur Gasanalyse, Tschechoslavakische Akademie der Wissenschaften, Brno.

(Chromatography) (Nitrogen) (Quinoline)
(Pyridine) (Indole)

# HRIVNAC, Milan

"Gas chromatography 1960". Reviewed by Milan Hrivnac. Chem prum 12 no.2:94-95 F '62.

1. Ceskoslovenska akademie ved.

KOZANEK, Tibor; HRIVNAK, Benjamin

Technique of brass fitting casting. Slevarenstvi 10 no.11:474-476 N '62.

1. Slovenska armaturka, Myjava.

WOLF, A.; HRIVNAK, D.; HRUBY, S.

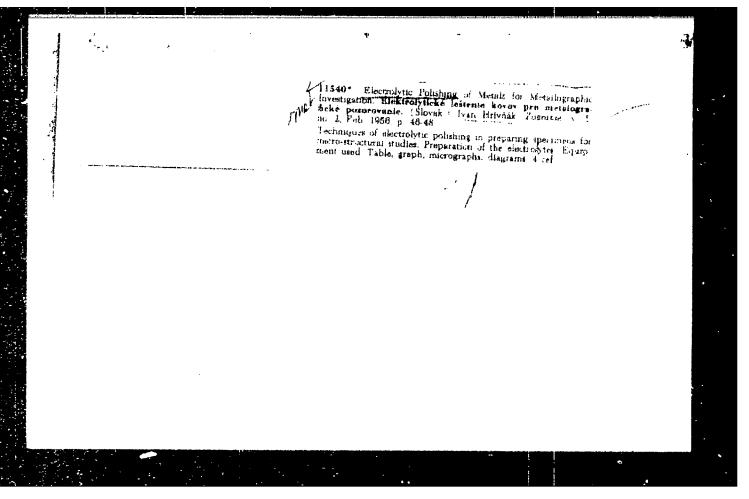
Endogenous alien substances formed in foods under the influence of ionising radiation. Cesk. hyg. 10 no.3:271-274 My '65

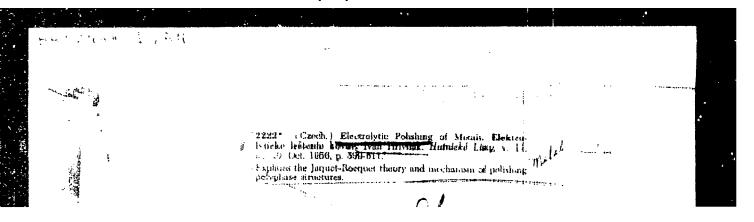
1. Katedra hygieny lekarske fakulty hygienicke Karlovy University, Praha.

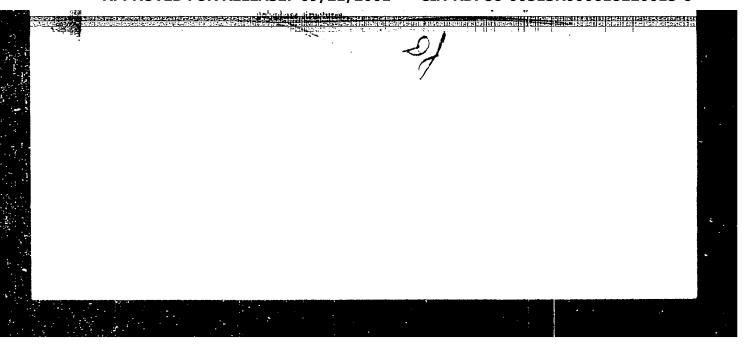
HRIVNAK, Ivan, inz.

Problem of the solution of temperature compensation for capillary viscosimeter. Automatizace 7 no. 3:68-70 Mr 164.

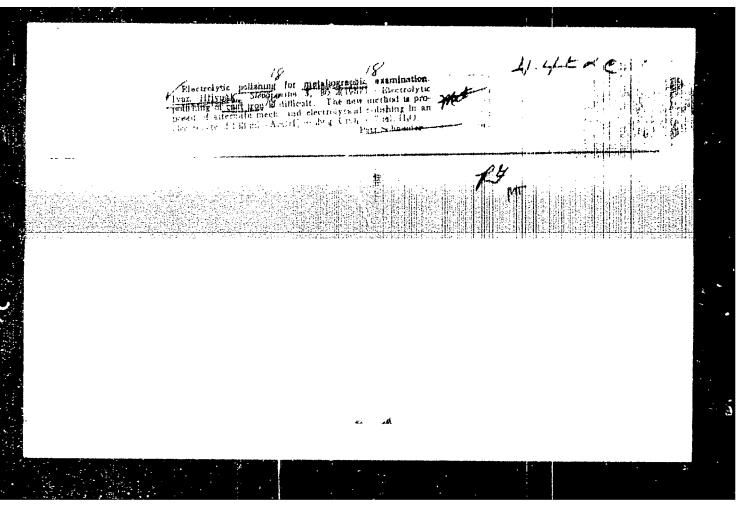
1. Slovnaft National Enterprise, Bratislava.

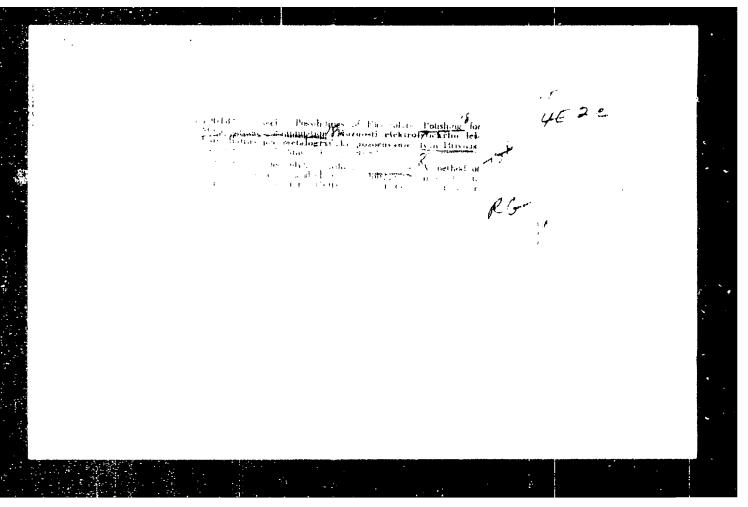


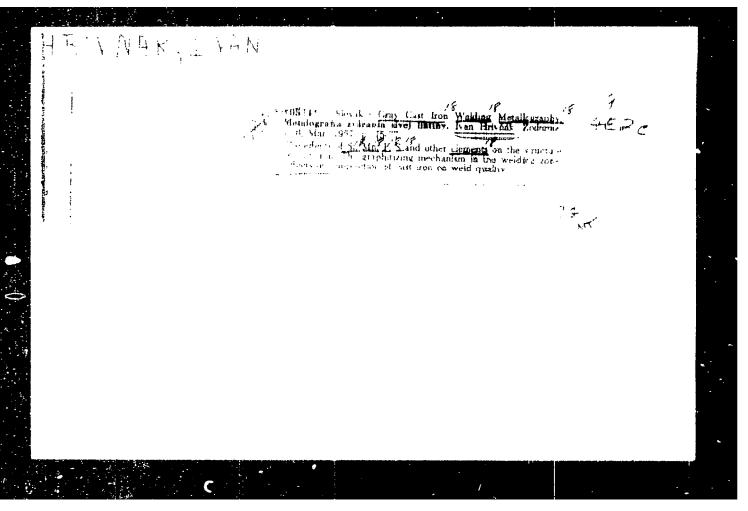




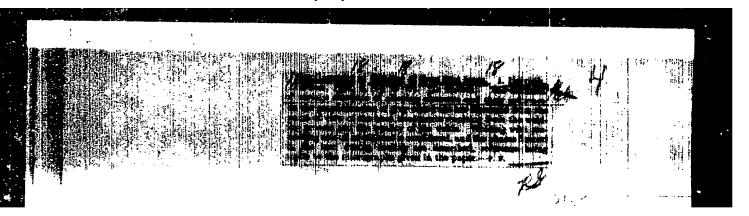
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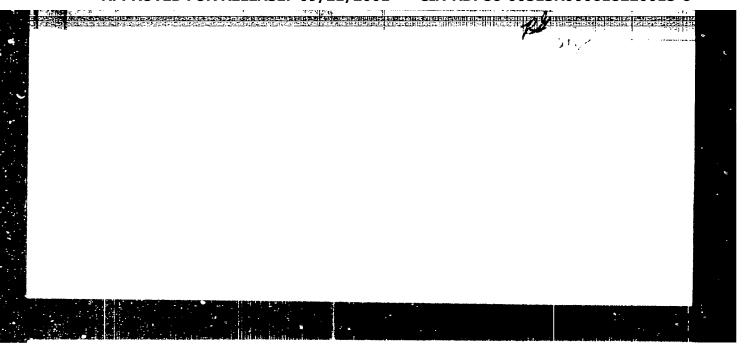






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CZECHOSLOVAKIA/Solid State Physics - Phase Transitions in Solids E-6

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 13154

Author : Hrivnak Ivan

Inst : Not Given

Title : High Speed Transformations in Contact Welding of Carbon

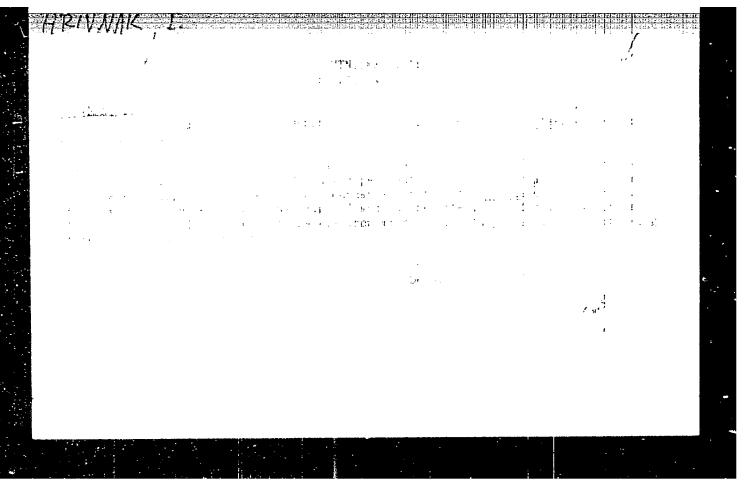
Steels

Orig Pub: Zvaranic, 1957, 6, No 10, 297-299

Abstract : No abstract

Card : 1/1

E NI 30



HRIVNAK, I.

Metallographic testing of transformer steels.

P. 1094. (HUTNICKE LISTY.) (Brno, Czechoslavakia) Vol. 12, No. 12, Dec. 1957

SO: Monthly Index of East European Accession (EEAI) IC. Vol. 7, No. 5, May 1958

HRIVNAK I

CZECHOSLOVAKIA / Chemical Technology. Chemical Products. H
Electrochemical Products. Electroprecipitation.

Chemical Sources of Electric Power.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 68082.

Author : Hrivnak I...
Inst : Not given.

Title : Electrolytes Employed in Making Metallographical

Polished Sections.

Orig Pub: Hutnicke listy, 1958, 13, No 2, 140-145.

Abstract: General review. It was established that for laboratory uses the most universal electrolytes are those having HclO4 as the base. Good results were obtained with the use of H3PO4, CrO3, and certain

acids.

Card 1/1

#### HRIVNAK, I.

Limits of grains and their morphologic configuration. p. 528

ZVARACSKY SBORNIK. (Slovenska academie vied) Bratislava, Czechoslovakia. Vol. 8, no. 4, 1959

Monthly list of East European Accessions (EEAI), LC Vol.9, no. 2, Feb. 1960

Uncl.

# HRIVNAK, I.

Contribution to the analysis of phases in austenite-ferrite welded joints. p. 258.

AVARANIE. (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo strojareustva)
Bratislava, Estonis
Vol, 8, no. 9, Sept. 1959

Monthly List of East European Accessions (FEAI) LC, Vol. 8, No. 11. Nov. 1959 Uncl.

CZECH/34-58-3-6/23

AUTHOR: Hrivňák, Ivan.

TITLE: A Variant of the Method of Using Carbon Extraction Replicas Which is Applicable to Austenitic Steels (Modifikacia extrak-

čných uhlíkových replík pre austenitické ocele)

PERIODICAL: Hutnické Listy, 1959, Nr 3, pp 211-214 (including 2 plates) (Czechoslovakia)

The method has been applied for studying austenitic Cr-Ni steels. For increasing the contrast the negative side of the ABSTRACT: carbon film was coloured with Cr. The structure of the austenitic grains and the slip mechanism was studied for a cast steel containing 17% Cr, 13.4% Ni, 0.05% C, 0.12% Ti and 0.2% W. Some of the obtained exposures (after exposures with magnifications of 10 000 and 11 000 times) are reproduced in Figs 1-6. Exposures obtained for a 16% Cr, 12.9% Ni steel are reproduced in Figs 7, 8 and 9, and exposures obtained for a 17.5% Cr, 11.9% Ni steel are reproduced in Fig 10. Finally, the structure of an 18 Cr-8 Ni steel is reproduced in Figs 11 and 12; Fig 11 was

Card 1/2

CIA-RDP86-00513R000618220015-6" **APPROVED FOR RELEASE: 09/21/2001** 

A Variant of the Method of Using Carbon Extraction Replicas produced without Cr coloration whilst Fig 12 was obtained after coloration with Cr. There are 12 figures and 2 references, of which 1 is Czech and 1 English.

ASSOCIATION: Výskumný ústav zváračský, Bratislava (Welding Research Institute)

SUBMITTED: June 17, 1958.

1\_

Card 2/2

 AUTHOR: Hrivnák, Ivan

CZECH/34-59-6-10/23

TITLE:

Influence of the Deformation in the Cold State on the Internal Structure of Austenitic Grains. Electronmicroscope Studies (Vplyv studenej deformácie na vnútornú štruktúru austenitických zrn. Electrono-

mikroskopické štúdium)

PERIODICAL: Hutnické Listy, 1959, Nr 6, pp 507-511 (Czechoslovakia)

ABSTRACT: The author has attempted to determine the analogy between the etch figures produced by means of a 10% HCl alcohol solution on the austenite of a monophase 16 Cr-13 Ni steel (0.07% C, 1.3% Mn, 0.2% Si, 0.008% S, 0.018% P, 16.5% Cr, 13.4% Ni and 0.5% Ti). The steel was resmelted in a h.f. Three states were investigated, namely, the as-cast state with a pronounced dendritic segregation, the homogenized state produced from the as-cast state by a 60% reduction in the cold state followed by recrystallization for three hours at 1200°C and quenching in water and, finally, in the homogenized state/by forging in the temperature range 1150-1050°C and cooling in air. The polished section was prepared in a solution of the type

Card 1/3 HClO<sub>4</sub> + CH<sub>3</sub>COOH + H<sub>2</sub>O at the usual current densities.

CZECH/34-59-6-10/23 Influence of the Deformation in the Cold State on the Internal Structure of Austenitic Grains. Electronmicroscope Studies

For revealing the internal structure, a 10% HCl solution in ethyl alcohol was used. The results were evaluated purely by means of a microscope. The electron microscope studies were made on a prototype microscope "Tesla BS-242". For producing the replicas, the negative colloidal imprint method with chromium tinting (Fig 4) and a modification of the extraction carbon replica, produced in a HCl alcohol solution and described in another paper (Ref 8), were used (Figs 1-3, 5-12). Morphological measurements yielded dimensions of 15 x  $10^4$  to 30 x  $10^4$  A and these values are in good agreement with results of X-ray measurements. Corresponding with the internal structure of the austenite, the etch figures were in the shape of uniform cubes or other shapes delimited by simple linear surfaces. The magnitude of the elementary slip displacement was 300 Å in the given case. The influence of deformation in the cold state was fully analogous to the influence of the Card 2/3 deformation in the cold state on the block structure;

CZECH/34-59-6-10/23 Influence of the Deformation in the Cold State on the Internal Structure of Austenitic Grains. Electronmicroscope Studies

intensive fragmentation (up to 5000 Å) and block deorientation took place. There are 12 figures and 10 references, 4 of which are Czech, 6 English.

ASSOCIATION: VÚS Bratislava SUBMITTED: January 16, 1959

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Card 3/3

CZECH/34-59-10-18/25

AUTHOR:

Hrivnák, Ivan

TITLE:

Colloquium on Metal Physics

PERIODICAL: Hutnicke Listy, 1959, Nr 10, pp 912-913

ABSTRACT: An all-Czechoslovak colloquium on metal physics was held in Bratislava on July 1-7 1959, under the auspices of the Welding Research Institute in co-operation with JCMF, VTS and the Czechoslovak Society for Electron Microscopy. 122 students from all over Czechoslovakia participated. The colloquium was inaugurated by Acad. J. Hronc, President of the Slovak Committee of Docent Engineer Rys gave a historical review of the study of metals and metal physics. During the subsequent days, 42 hours of lectures and 32 hours of laboratory work followed. Dr. A. Cizek presented a general paper on "The Subject Matter of Metal Physics". L. Hrivnak, PFUK Bratislava, together with E.F. Hollander, VUZ Bratislava, presented papers on the electron theory of metals. J. Kucera, Brno, presented a paper on "Diffusion in the Solid Phase". Several other papers, were also read, some of which are mentioned. The aim L

Card 1/2

CZECH/34-59-10-18/25

Colloquium on Metal Physics

of the colloquium was to give the participants an overall picture of the present state of some branches of knowledge in the field of physics of metals, and also to provide a short course on electron microscopy.

Card 2/2

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D007/D102

AUTHOR:

Hrivňák, Ivan

TITLE:

Thermal and phase analysis of the influence of welding

on the ageing of low-carbon steels

PERIODICAL: Zváračský sborník, no. 2, 1961, 186-211

TEXT: The study of low-temperature annealing (age-hardening) is very important for the investigation of processes connected with material ageing and for the determination of the weldability of low-carbon steels. The purpose of this study is to support the author's theory on the mechanism of multiple-line boundaries of ferrite grains (Ref. 1: I. Hrivnák: Hutnické listy 15, 1960, no. 6, 432) and to provide additional information on the precipitation of nitrides and oxides in the Fe-N-O system. The age-hardening tests were performed with spectrally pure iron (Johnson, Mathey and Co.) and with commercial CSN 11 370.3 low-carbon steel. Prior to the tests, both steel types were homogenized for 4 hrs at 950°C, cooled in air to 700°C, and

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Card 1/5

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Thermal and phase ...

then quenched in water. The age-hardening was performed at 100, 200, 300, and 400°C with hardening periods of 10 min, 1, 10, 50, and 100 hrs. Several specimens were also "annealed" at room temperature (approximately 25°C) during one month. The influence of age-hardening was investigated by microscopic viewing of polished sections; by electron-microscopic investigation of extraction carbon and film replicas (which were also used for transmission electron-microscopy); and by microhardness tests according to the Hannemann method with a load of 50 g. Electron microscopes used were the Czechoslovak Tesla BS-242 (selective diffraction in the range <3, ), and a Czechoslovak experimental high-resolution electron microscope. The investigation by diffraction on reflection was performed on a Trueb & Teuber apparatus. The test results can be interpreted as follows: Contrary to the currently accepted theory that the nitride precipitation from an oversaturated Fe-N solid solution starts with d"-Fe16N2, which subsequently transforms into the cubic b'-Fe1N, the present study has shown that in age-hardening of spectrally pure and commercial-grade low-carbon irons, the nitride precipitation

Card 2/5

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Thermal and phase ...

starts with the hexagonal  $\mathcal{E}$ -Fe<sub>3</sub>N (already after 10 min at 100°C) which, at longer hardening periods, transforms (over the transient phase f-Fe<sub>2</sub>N) to  $\alpha$ "-Fe<sub>16</sub>N<sub>2</sub> and, finally, to the stable, cubic f-Fe<sub>4</sub>N (at 300°C after 100 hrs). The precipitation and transformation are accompanied by an increase of hardness. The first E-FezN particles are coherent with the (100) planes of x-Fe, as was morphologically established by etching ferrites to the (100) planes. The E-FexN precipitation nucleates at dislocations and other lattice defects and is also prominent on mosaic boundaries (veining). The fact that nucleation does not start at grain boundaries can be explained either by the assumption that grain boundaries are not regions of increased N concentration, or that they are regions with increased free energy and interstitial-element concentration so that N atoms are not forced to undergo transition into precipitates. A. N. Tsou, J. Nutting, and J. W. Menter (Ref. 5: Iron Steel Inst. 172, 1952, 163) observed /-Fe lines on grain boundaries of quenched specimens, which they attributed to increased concentration of strongly austenite-forming N. However, such /-lines were not found

Card 3/5

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Z/046/61/000/002/002/004 D007/D102

Thermal and phase...

in tests described in this paper and it may almost be taken for granted that the N concentration on the grain boundries is not greater than in the grains themselves. More convincing data were obtained on the precipitation of oxides which was investigated in pure iron at 750°C and in commercial-grade iron at 100, 200, and 300°C. It was found that iron oxides in oversaturated A-Fe solid solutions precipitate as A-Fe<sub>2</sub>O<sub>2</sub> in the form of disk-shaped particles, 500 - 800 Å in diameter. In pure iron, a highly symmetrical precipitation takes place in the (100) planes of A-Fe. In wide-angle grain boundaries this symmetry is disturbed and the oxide particles form several zones (lines) parallel to the boundary direction. The boundary line itself forms a so-called "neutral zone", approximately 1,000% wide, in which no oxide precipitation takes place. The results of the study of oxide and nitride precipitation appear to support the dislocation model of wide-angle grain boundaries as a system of Burgers boundaries, as previously proposed by the author (Ref. 1: Op. cit.). However, transmission-electron-microscopic investigation of thin aluminum foils (0.2 mm thick, 99.99% Al), made in an effort

Card 4/5

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Thermal and phase...

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to support the dislocation model of wide-angle grain boundaries, has failed to produce the expected confirmation thus far. The study is being continued and will be described in a separate paper. Appreciation is extended to the Institute Director, Academician J. Čabelka (Technical Editor: Doctor of Natural Sciences A. Zapletálek of the VÚZ, Bratislava). There are 28 figures, 7 tables and 29 references: 7 Soviet-bloc and 22 non-Soviet-bloc. The references to the four son, A Handbook of Lattice Spacings and Structures of Metals and Sutton, J. Iron Steel Inst. 187, 1957, 205; A. U. Seybold, J. Metals 6, 1954, 641; E.F. Hollaender, Czechoslovak Journ. Phys. 9, 1959,

ASSOCIATION:

VÚZ Bratislava.

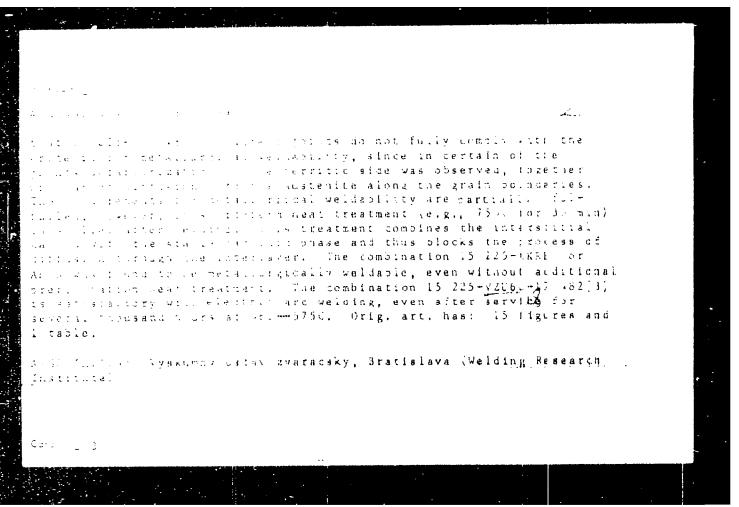
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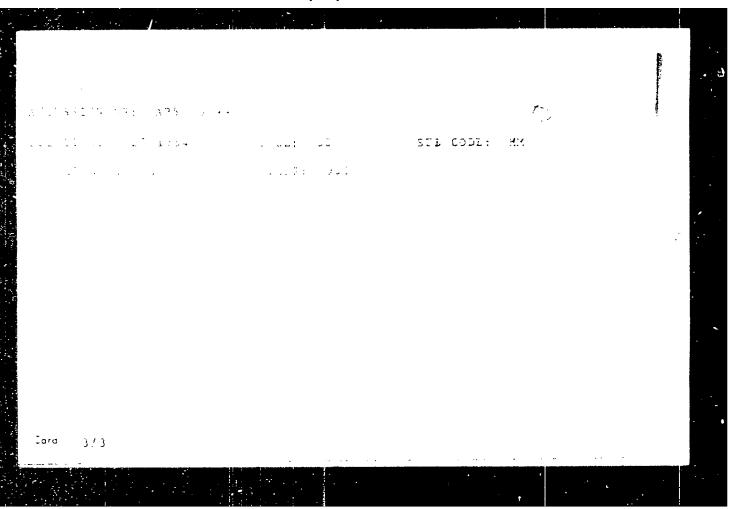
ERIVNAK, Ivan, inz., C.Sc.

Metallurgical weldability of mild structural steel. Zvar sbor 11 no.4://01-427 '62.

1. Vyskumny ustav zvaracsky, Bratislava.

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SOURCE: Rovove materialy, no. 6, 1904, 522-530
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HRIVNAK, Ivan

The C-Au-C and C-PtPd-C extraction replica for electron microscopic analysis. Hut listy 16 no.1:49-52 Ja '61.

1. Vyzkumny ustav zvaracsky, Bratislava.

HRIVNAK, Ivan, inz.

Application of electron diffraction on the reflection in the BS-242 eletron microscope. Hut listy 16 no.9:666 S 161.

1. Vyskumny ustav zvaracsky, Bratislava.

AND WELLOW NEEDS IN THE WAR TO SHOW THE WAR TO

HRIVNAK, Ivan, inz., C.Sc.

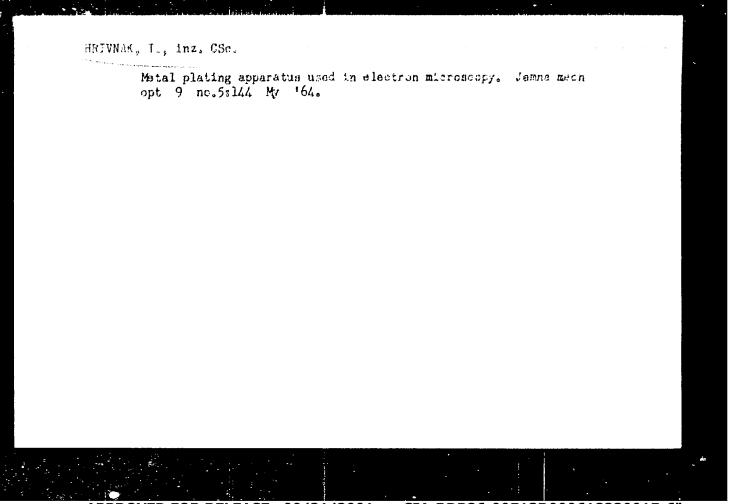
Metallurgical weldability of mild structural steel. Zvar sbor 11 no.3:289-326 '62.

1. Vyskumny ustav zvaracsky, Bratislava.

HRIVNAK, Ivan, okleveles mernok

The effect of oxygen, nitrogen and carbon situated among the lattice points on the properties of low-carbon steels. Koh lap 95 no.9:428-432 S '62.

1. Hegesztestechnikai Kutato Intezet, Bratislava, Czechoslovakia.



### CZEUMOSŁOVAMIA

HRIVHAK, J; STOTA, A; DOLEZAL, J; SUBINOVA, A.

Research Institute of Agrochemical Technology (Forschungsinstitut fuer agrochemische Technologie), Bratislava (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 10, 1965, pp 3272-3277

"Gas Chromatographic Determination of Chloroformic Acid Alkylesters."

HRIVNAK, J.

Evaluation of the activity of sponsoring factories of machine-tractor stations. p. 36. MECHANISACE ZEMEDELSTVI. Vol. 5, No. 2, Jan. 1955.

SO: Monthly East European Accession (EEAL), LC, VOL. 4, No. 9, Sept. 1955 Uncl.

HRIVNZAK, J.

HRIVNIAK, J. The management of machine-tractor stations in the Bratislava district p. 404.

Vol. 6, No. 21, Nov. 1956 MERCHANISACE ZEMEDELSTVI AGRICULTURE Praha, Czechoslovakia

So: East European Accession, Vol. 6, No. 3, March 1957

HRIVNAK, J.

Should district agronomists of machine-tractor stations be incorporated into collective farms? p. 199. (Mechanisace Zemedelstvi, Vol. 7, No. 9, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

### CIA-RDP86-00513R000618220015-6 "APPROVED FOR RELEASE: 09/21/2001

HRIVNAK, Jan; MICHALEK, Milan; STOTA, Zdenek

Determining the phthalimide content from the melting point of binary mixture. Chem prum 13 no.1:18-19 Ja '63.

1. Vyskumny ustav agrochemickej technologie, Bratislava.

HRIVNAK, J., inz. CSc.

Determining fat acids in muddy waters and wasts waters by gas chromatography. Vodni hosp 14 no.10:394, 395 '64.

PALO, Vladimir; HRIVNAK, Jan

Free fat acids in sheep milk. Prum potravin 16 no.4:198-199 Ap '65.

1. Chemistry of the Slovak Higher School of Technology, Bratislava (for Palo). 2. Research Institute of Agrochemical Technology, Bratislava (for Hrivnak). Submitted December 4, 1963.

Malalala, Jane 180 HALL Stora; VESELA, Justalea

tolor metric determination of trich foromethyloulfary) chloride in the standanere of the working area. Proc. lek. 16 ro.8: 172-373 C \*64.

1. Vyranciny unitar agreementable j technologie v draftalara (venera pracovinka ing. V. Batora, CSe.).

HRIVNAK, Jan, inz. CSc; PALO, Vladimir, inz.

Gas chromatography of nonesterified fat acids in dairy products. Chem svesti 18 no.4:294-298 \*64

1. Research Institute of Agricultural Chemical Technology, Bratislava (for Hrivnak). 2. Department of Technology biology and Biochemistry, Slovak Higher School of Technology, Bratislava, Kollarovo namesti 2 (for Palo).

HRIVNAK, Jan; VESELA, Zlatica; SOHLER, Ervin; DRABEK, Jozef

Study on reesterification of ethyl acatcacetate by methanol with the aid of gas chromatography. Chem prum 15 no.1:7-9 Ja '65.

1. Research Institute of Agricultural Chemistry Technology, Bratislava.

HRIVNAK, J., inz. CSc.; SCHIESSL, O., inz.; SOHLER, E., promowany chemik

Determining chlorated phenols in waste water by gas chromatography. Vodni hosp 14 no. 3:119-120 '64.

HRIVNAK, J., inz., CSc.; SCHIESSL, O., inz.

Determination of chlorinated cresols in waste waters by gas chromatography. Vedni hosp 14 ne. 1:39-40 164.

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tota, Z. (Shteta, Z.) (Engineer) (Bratislav	ger, Candidate of sciences)(Bratislava);	
ITLE: Determination of isomers of trich	lorobenzene by gas chromatography	
OURCE: Chamicke zvesti, no. 9, 1964, 69	2-697	
OPIC TAGS: isomer, gas chromatography,	benzene, chlorinated organic compound	
he "inner standard. "We thank Eng. M. L malysis and graduate chemist E. Sobler f	chloro-2-methyl-propane-2-01 was used as	
figure, 1 graph, and 3 tables.	The second secon	
figure, 1 graph, and 3 tables. SSOCIATION: Vyskusny ustav agrochemicks	4.5	
figure, 1 graph, and 3 tables.  SSOCIATION: Vyskumny ustav agrochemicke  Institute for Agrochemical Technology) 44  UBMITTED: 27Jan64  ENC.	55	

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ACC NR: AP6023843	
AUTHOR: Hrivnak, Jan-Grivnyak, Ya. (Engineer; Bratislava); Vesela, Zlatica (Engineer; Bratislava)	1
ORG: Research Institute for Agrochemical Technology, Bratislava (Vyskumny ustav agrochemickej technologie)	÷ ,, ;
TITIE: Investigation of the chlorination of methyl acetoacetate by means of gas chromatography	
SOURCE: Chemicke zvesti, no. 9, 1965, 711-714	
TOPIC TAGS: gas chromatography, chlorination, chemistry technique	
ABSTRACT: Chlorination of the methylester of acetoacetic acid was investigated by means of gas chromatography. The reaction mixture was analyzed in a glass column was in diameter and 1.6 m high, filled with Celito 545 (grain size 0.16-0.20 mm). The operating temperature was 130°C. The celite contained 13% of di-2-othylhexyl sebacate and 2% of polyethylene glycol 400. The carrier gas was hydrogen. When sebacate and 2% of polyethylene glycol 400. The carrier gas was hydrogen. When chlorine was used for chlorination 2-chloro- and 2.2'-dichloroacetic acid methylester were formed; when sulfuryl chloride was used for the chlorination only the first product was formed. Orig. art. has: 2 figures. [JPRS]	
SUB CODE: 07 / SUBM DATE: 20Jan65 / ORIG REF: 001 / SOV REF: 002  OTH REF: 010  Cord 1/1	

SOURCE CODE: CZ/0043/65/000/011/0846/0849 RM/JW L <u>33691-66</u> EWP(j)ACC NR: AP6024208 AUTHOR: Hrivnak, Jan-Grivnyak, Ya. (Engineer; Candidate of sciences; Bratislava); Stota, Zdonok-Shtota, Z. (Engineer; Bratislava); Dolezal, Jozef -- Dolezhal, Ya. (Engineer; Bratislava) B ORG: Research Institute for Agricultural Chemical Technology, Bratislava (Vyskumny ustav agrochemickej technologie) TITLE: Separation of alkyl carbonates of 2-phenyl-4,6-dinitrophenol by gas SOURCE: Chemicko zvesti, no. 11, 1965, 846-849 TOPIC TAGS: gas chromatography, chemical separation, organic nitro compound, analytic chemistry, chemical purity Direct determination of n- and iso-alkyl (C1-C8)carbonates of 2-phenyl-4,6-dinitrophenols was studied by means of gas chromatography. Polyethylene-glycol edipate, Aprezon L, and silicon grease SE 301 were used as anchor phases, nitrogen as carrier gas, and detection was made by a flame ionization detector. Practically, the method is suitable for determination of purity and the analysis of some products. Orig. art. has: 2 figures and 1 table. /JPRS/ SUB CODE: 07 / SUEM DATE: 04Mar65 / ORIG REF: 002 / OTH REF:

L 31336-66

ACC NR: AP6021118

SOURCE CODE: CZ/0043/65/000/012/0942/0943

AUTHOR: Hrivnak, J.-Grivnak, Ya. (Engineer; Candidate of sciences; Bratislava);

ORG: Research Institute for Agrochemical Technology, Bratislava (Vyskumny ustav agrochemicke j technologie)

TITLE: Injection block for gas chromatography

SOURCE: Chemicke zvesti, no. 12, 1965, 942-943

TOPIC TAGS: gas chromatography, chemical laboratory apparatus

ABSTRACT: The author describes a block which he designed; it has a minimum dead space and the analyzed substance is contained in a glass tube which is removable and replaced for every new analysis. The tubes may be washed and reused, if desired.

Cleaning of the metal block is thus completely avoided. Orig. art. has: 3 figures.

SUB CODE: 07 / SUBM DATE: 26Jun65 / ORIG REF: 001 / OTH REF: 004

Card 1/1 Q.Q

**APPROVED FOR RELEASE: 09/21/2001** 

CIA-RDP86-00513R000618220015-6"

Hrivnak, L.

Remarks about L. Valenta's paper, "Spontaneous Ma; netization of a Linear Model of a Ferrogmagnetic Toroid in a Magnetic Field." P. 95 CESKOSLOVENSKY CASOPIS PRO FYSIKU. (Ceskoslovenska akademie ved. Ustav technicke fysiky) Praha Vol. 6, no. 1, Jan. 1956

Source: EEAL - LC Vol. 5. No. 10 Oct. 1956

HRIVNAK LOBOM, R

CZECHOSLOVAKIA/Solid State Physics - Solid State Theory

E-2

Abs Jour : Ref Zhur - Fizika, No 5, 1958, No 10544

: Hrivaak Lubomir Author

: Not Given Inst

: Mean Free Path of Excitons in the Presence of Dislocations. Title

Orig Pub : Chekhosl. fiz. zh., 1957, 7, No 4, 390-396

Abstract : See Abstract 10543

: 1/1 Card

MARTHAR LUNGTER

CZECARPROVED FOR RELEASE: 09/21/2001 to CIA-RDP86-00513RC00618220015-6"

Abs Jour : Ref Zhar - Fluika, No 5, 1950, No 10543

: Hrivnak Luhomic Author

: Fyz. Ustav Prizodovedeckeh Fek. Univ. Komenskehu, Bratislava, Inst

Cuechoslovakia

: Mean Free Paths of Excitons in the Presence of Dislocations. Title

Orig Pub : Ceskosl. casop. fys., 1357, 7, No 4, 336-340

Abstract: The author investigates the influence of linear dislocations (D) on the mean free path of the non-localized excitor. The exciton is represented in the form of a hydrogen-like atom, consisting of an electron and a hole. First investigated is the scattering of the acciton, at which its internal energy does not change, on a single dislocation, which is considered constant during the time of distribunce and which is represented by an electrostatic potential of the form  $V=A \sin \phi/\rho [\rho]$ 

(where D is the distance from the axis of the dislocation). It is shown that the scattering depends on the ratio of the effective messes of the electron and the hole and on the direction of displacement of the exciton with respect to the

: 1/2 Card

CZECHOSLOV/KI//Electricity - Semiconductors

G-3

Abs Jour: Ref Zhur - Fizika, No 4, 1959, No 8528

Author Hrivnek-Llubomir

Inst

Title : Mean Free Path and Mobility of Electrons in Ionic Crystals

Orig Pub: Ceskosl. casop. fys., 1957, 7, No 6, 626-633

Abstract : See Referat Zhur Fizika, 1958, No 12, 27811

Card : 1/1

